## **TECH CENTER 1600/2900**

### DEC \$ 3 5003

# **BECEINED**



1600

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/831,050A

DATE: 12/19/2003 TIME: 10:37:16

Input Set : N:\AMC\I831050A.raw

Output Set: N:\CRF4\12182003\1831050A.raw

			(	Outp	ut S	et: 1	N:\C	RF4\	1218:	2003	/183	1050	A.ra	WT .	orni M			
1	<110×	2 DD1		. m.	auom	- ~	1		Ola	1						<b>\                                    </b>		REI
	<110>				оном n Ma:			ora	cnar.	res				!		N I		ÌĿĿĿ
2						LK												
4				Bas:														*
	<120>			_		TON.	De l	iver	v of	Sun	erov.	ide 1	Dism	1125	≥ to	Neu:	ronal	Cells
	<130>									oup.	CI OA.	iac .	J 1 5111	acası		Ivcu.	LOHAI	CCIID
	<140>									09/8	31.0	50A						
	<141>										J_ , U.							
	<150>									B99/	0369	9						
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20		_ 1		- 1	_	5				_	10			m1	-	15		
21		Pro	His	IIe.		ьys	Glu	Thr	Met		тте	His	Hls	Thr		HlS	HIS	
22 23		Nan	Thγ	Т	20	Th∽	7 cn	T 011	Λαn	25	Nlα	Ton	Clu	G1 17	30	Dro	7 cn	. •
23		ASII	1111	35	vaı	1111	ASII	ьeu	Asn 40	Ala	Ата	ьеи	GIU	45	UIS	PIO	Asp	
25		Leu	Gln	Asn	Lys	Ser	Leu	Glu	Glu	Leu	Leu	Ser	Asn	Leu	Glu	Ala	Leu	
26			50					55					60					
27		Pro	Glu	Ser	Ile	Arg	Thr	Ala	Val	Arg	Asn	Asn	Gly	Gly	Gly	His	Ala	
28		65					70					75					80	
29 30		Asn	His	Ser	Leu	Phe 85	Trp	Thr	Ile	Leu	Ser 90	Pro	Asn	Gly	Gly	Gly 95	Glu	
31		Pro	Thr	Glv	Glu		Ala	Glu	Ala	Ile		Lvs	Lvs	Phe	Glv		Phe	
32				1	100					105			2 -		$110^{-1}$			
33		Thr	Ala	Phe	Lys	Asp	Glu	Phe	Ser	Lys	Ala	Ala	Ala	Gly	Arg	Phe	Gly	
34				115	-	-			120	_				125	_			
35		Ser	Gly	Trp	Ala	Trp	Leu	Val	Val	Asn	Asn	Gly	Glu	Leu	Glu	Ile	Thr	
3,6			130					135					140					
37	•	Ser	Thr	Pro	Asn	Gln	Asp	Ser	Pro	Ile	Met	Glu	Gly	Lys	Thr	Pro	Ile	
38		145					150					155					160	
39		Leu	Gly	Leu	Asp		Trp	Glu	His	Ala	_	Tyr	Leu	Lys	Tyr		Asn	
40						1.65					170		_			175		
41		Arg	Arg	Pro		Tyr	Ile	Ala	Ala		Trp	Asn	Ile	Val		Trp	Asp	
42		~1			180	_		_	<b>63</b>	185	-	n 7	·		190			
43		GLu	val		ьys	Arg	Tyr	Ser	Glu	Ala	ьуs	АТа	rys					
4 4				195					200									

RAW SEQUENCE LISTING DATE: 12/19/2003 PATENT APPLICATION: US/09/831,050A TIME: 10:37:16

Input Set : N:\AMC\I831050A.raw

Output Set: N:\CRF4\12182003\I831050A.raw

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48 <212> TYPE: PRT
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         Pro His Ile Asp Lys Glu Thr Met Asn Ile His His Thr Lys His His
53
54
                      20
                                           25
55
         Asn Thr Tyr Val Thr Asn Leu Asn Ala Ala Leu Glu Gly His Pro Asp
56
                                       40
57
         Leu Gln Asn Lys Ser Leu Glu Glu Leu Leu Ser Asn Leu Glu Ala Leu
58
                                  55
         Pro Glu Ser Ile Arg Thr Ala Val Arg Asn Asn Gly Gly His Ala
59
60
                              70
                                                   75
         Asn His Ser Leu Phe Trp Thr Ile Leu Ser Pro Asn Gly Gly Gly Glu
61
62
63
         Pro Thr Gly Glu Leu Ala Asp Ala Ile Asn Lys Lys Phe Gly Ser Phe
64
                     100
                                          105
                                                              110
65
         Thr Ala Phe Lys Asp Glu Phe Ser Lys Ala Ala Ala Gly Arg Phe Gly
66
                                     120
67
         Ser Gly Trp Ala Trp Leu Val Val Asn Asn Gly Glu Leu Glu Ile Thr
                                 135
68
                                                      140
69
         Ser Thr Pro Asn Gln Asp Ser Pro Ile Met Glu Gly Lys Thr Pro Ile
70
                             150
                                                  155
71
         Leu Gly Leu Asp Val Trp Glu His Ala Tyr Tyr Leu Lys Tyr Gln Asn
72
                                             170
                         165
73
         Arg Arg Pro Glu Tyr Ile Ala Ala Phe Trp Asn Val Val Asn Trp Asp
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75
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86
                                               10
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        . Pro His Ile Asp Lys Glu Thr Met Asn Ile His His Thr Lys His His
88
                      20
                                          25
89
         Asn Thr Tyr Val Thr Asn Leu Asn Ala Ala Leu Glu Gly His Pro Asp
90
91
         Leu Gln Asn Lys Ser Leu Glu Glu Leu Leu Ser Asn Leu Glu Ala Leu
92
93
         Pro Glu Ser Ile Arg Thr Ala Val Arg Asn Asn Gly Gly His Ala
94
                                                   75
                              70
         Asn His Ser Leu Phe Trp Thr Ile Leu Ser Pro Asn Gly Gly Glu
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RAW SEQUENCE LISTING DATE: 12/19/2003 PATENT APPLICATION: US/09/831,050A TIME: 10:37:16

Input Set : N:\AMC\I831050A.raw

Output Set: N:\CRF4\12182003\1831050A.raw

- 96			85			•	90					95	
97	Pro Thr	Gly Glu		Asp A	Ala 1	Ile .		Lvs	Lvs	Phe (	Glv :		Phe
98		100		1101		105			-10		110	001	1110
99	Thr Ala	Phe Lys	Asp Glu	Phe S			Ala	Ala	Ala			Phe	Glv
100		115			120	-10 .				125			019
101	Ser Gl	y Trp Ala	a Tro Le	u Val		Asn	Asn	Glv	Glu		Glu	Tle	Thr
102	13	• •	p	135				~- <u>1</u>	140				
103		r Pro Ası	n Gln As		Pro	Tle	Met	Glu		Lvs	Thr	Pro	Tle
104	145		15					155	_				160
105		y Leu Ası	_		His	Ala	Tvr			Lvs	Tur	Gln	
106	100 01	, Lou no,	165	, 014			170	-1-	200	,	- 1 -	175	
107	Arg Ar	g Pro Gli		e Ala	Ala	Phe		Asn	Val	Val	Asn		
108		180	_			185	F				190		
109	Glu Va	l Ala Ly:		r Ser	Glu		Lvs	Ala	Lvs	Gln		Ser	Cvs
110	014 .4	195			200		-10		-1-	205	5		010
111	Glv Le	u Val Pro	o Ara Gl	v Ser		Pro	Glv	Ser	Ala		Asn	Asp	Len
112	21		y	215	V-1		0-1	-00	220			- 1-0 p	
113		e Lys Val	l Asn As		Asp	Leu	Phe	Phe		Pro	Ser	Glu	Asp
114	225	o zyo va.	23	_	1101			235	001		001		240
115		e Thr Ası			Lvs	Ġlv	Glu		Tle	Thr	Ser	Asp	
116			245		-1-	1	250					255	
117	Asn Il	e Glu Ala		ı Glu	Asn	Ile		Leu	Asp	Leu	Ile		
118		260				265					270		
119	Tvr Tv	r Leu Thi		n Phe	Asp		Glu	Pro	Glu	Asn	Ile	Ser	Ile
120	-11	275			280					285			
121	Glu As	n Leu Sei	r Ser Ası			Glv	Gln	Leu	Glu		Met	Pro	Asn
122	29			295		1			300				
123		u Arg Phe	e Pro Asi		Lvs	Lvs	Tvr	Glu		Asp	Lvs	Tvr	Thr
124	305		31	_	<b>-</b>	4	-	315		-		-	320
125	Met Ph	e His Ty	Leu Ar	a Ala	Gln	Glu	Phe	Glu	His	Glv	Lvs	Ser	Arq
126		_	325	-			330			-	-	335	
127	Ile Al	a Leu Thi	Asn Se	r Val	Asn	Glu	Ala	Leu	Leu	Asn	Pro	Ser	Arg
128		340				345					350		-
129	Val Ty	r Thr Phe	e Phe Se	r Ser	Asp	Tyr	Val	Lys	Lys	Val	Asn	Lys	Ala
130	_	355			360	_			_	365			
131	Thr Gl	u Ala Ala	a Met Ph	e Leu	Gly	Trp	Val	Glu	Gln	Leu	Val	Tyr	Asp
132	37			375	-	_			380				_
133	Phe Th	r Asp Glu	I Thr Se	r Glu	Val	Ser	Thr	Thr	Asp	Lys	Ile	Ala	Asp
134	385		390					395					400
135 .	Ile Th	r Ile Ile	e Ile Pro	o Tyr	Ile	Gly	Pro	Ala	Leu	Asn	Ile	Gly	Asn
136			405				410					415	
137	Met Le	ı Tyr Lys	Asp As	) Phe	Val	Gly	Ala	Leu	Ile	Phe	Ser	Gly	Ala
138		420				425					430		
139	Val Il	e Leu Lei	ı Glu Phe	e Ile	Pro	Glu	Ile	Ala	Ile	Pro	Val	Leu	Gly
140		435			440					445			
141	Thr Ph	e Ala Leu	ı Val Se:	r Tyr	Ile	Ala	Asn	Lys	Val	Leu	Thr	Val	Gln
142	45	)		455					460				
143	Thr Ile	e Asp Asr	n Ala Lei	ı Ser	Lys	Arg	Asn	Glu	Lys	Trp	Asp	Glu	Val
144	465		470	)				475					480

#### RAW SEQUENCE LISTING

DATE: 12/19/2003 PATENT APPLICATION: US/09/831,050A TIME: 10:37:16

Input Set : N:\AMC\I831050A.raw

Output Set: N:\CRF4\12182003\I831050A.raw

145	Tyr	Lys	Tyr	Ile		Thr	Asn	Trp	Leu		Lys	Val	Asn	Thr		Ile
146	_	_		_	485	_		_		490	_		_	~ .	495	
147	Asp	Leu	Ile		Lys	Lys	Met	Lys		Ala	Leu	Glu	Asn		Ala	GLu
148				500					505					510		
149	Ala	Thr	Lys	Ala	Ile	Ile	Asn	Tyr	Gln	Tyr	Asn	Gln	Tyr	Thr	Glu	Glu
150			515					520					525			
151	Glu	Lys	Asn	Asn	Ile	Asn	Phe	Asn	Ile	Asp	Asp	Leu	Ser	Ser	Lys	Leu
152		530					535					540				
153	Asn	Glu	Ser	Ile	Asn	Lys	Ala	Met	Ile	Asn	Ile	Asn	Lys	Phe	Leu	Asn
154	545					550					555					560
155	Gln	Cys	Ser	Val	Ser	Tyr	Leu	Met	Asn	Ser	Met	Ile	Pro	Tyr	Gly	Val
156				•	565					570					575	
157	Lys	Arg	Leu	Glu	Asp	Phe	Asp	Ala	Ser	Leu	Lys	Asp	Ala	Leu	Leu	Lys
158	-	•		580	•		-		585		_	_		590		_
159	Tvr	Ile	Tvr	Asp	Asn	Arq	Gly	Thr	Leu	Ile	Gly	Gln	Val	Asp	Arg	Leu
160	-		595	•		_	-	600			-		605	-		
161	Lvs	Asp	Lvs	Val	Asn	Asn	Thr	Leu	Ser	Thr	asA	Ile	Pro	Phe	Gln	Leu
162	-1-	610	-1-				615					620				
163	Ser		Tvr	Va l	Asp	Asn	Gln	Ara	Leu	Leu	Ser	Thr	Phe	Thr	Glu	Tvr
164	625	-10	- 1 -			630		9			635					640
165		Lvs	Asn	Tle	Tle		Thr	Ser	Tle	Leu		Leu	Ara	Tvr	Glu	
166		_,,			645			~~-		650			5	-1-	655	
167	Asn	His	T.e.11	Tle		Len	Ser	Ara	Tur		Ser	Lvs	Tle	Asn		Glv
168	11011		псф	660	ПОР	200	001	9	665		001			670	110	
169	Ser	T.ve	Val		Phe	Asn	Pro	Tle		Lvs	Asn	Gln	Tle		T.e.ii	Phe
170	JCI	цуз	675	71011	1110	7150	110	680	1100	Lyo	11011	0111	685	0111	Deu	
171	Asn.	T.611		Ser	Ser	T.vs.	Ile		Val	Tle	T.e11	T.vs		Ala	Tle	Val
172	HOII	690	Oru	DCI	DCI	Буо	695	Olu	VUL	110	цса	700	11011	111.4	110	• • •
173	тиг		Sar	Mat	ጥኒፖ	Glu	Asn	Dha	Sar	Thr	Sar		Trn	Tlo	Δra	Tle
174	705		Per	I I C	тут	710	Noii	1110	Det	1111	715	1110	пр	110	nrg	720
175 ·			Фтт	Dho	7 cn		Ile	Sor	Tou	Λen		Glui	Тиг	Thr	Tla	
176	FLO	цуз	тут	rne	725	Det	116	Ser	neu	730	ASII	Oiu	тут	1111	735	110
	7 00	Crra	Mot	C1.,		7 cn	805	C1	m~~		17 n 1	cor	T 011	7 cn		Clar
177 178	ASII	Cys	мес	740	ASII	ASII	Ser	СТУ	745	гÃ2	vai	ser	ьeu	750	тут	Gry
	C1	rı.	т1.		mb	T 0	C1-	7		C1~	C1	Tla	T		7.~~	Wal.
179	GIU	тте		пр	TIIT	теп	Gln	_	TIIT	GIII	GIU	тте	765	GIII	ALG	vaı
180	17-1	nh -	755	Ma	C	C1	34 - ±	760	7	т1.	C ~ ~	7		т1.	7	71 ~~ ~~
181	val		тÀS	ıyı	ser	GIN	Met	ше	ASII	тте	ser	_	ıyı	тте	ASII	Arg
182		770	D1	77.7	m)	<b>-</b> 1	775	<b>.</b>	7	70	<b>T</b>	780	7	0	T	т1 -
183		тте	Pne	vaı	Inr		Thr	Asn	Asn	Arg		Asn	Asn	ser	ьуѕ	
184	785		_		_	790		_		_	795		_	_	_	800
185	Tyr	lle	Asn	GLY	-	Leu	Ile	Asp	GIn	_	Pro	тте	Ser	Asn		GTA
186					805					810		_	_		815	_
187	Asn	Ile	His		Ser	Asn	Asn	Ile		Phe	Lys	Leu	Asp		Cys	Arg
188			•	820	_		_		825	_	_0	_	_	830		_
189	Asp	Thr		Arg	Tyr	Ile	Trp		Lys	Tyr	Phe	Asn		Phe	Asp	Lys
190			835					840					845		_	_
191	Glu		Asn	Glu	Lys	Glu	Ile	Lys	Asp	Leu	Tyr		Asn	Gln	Ser	Asn
192		850					855					860				
193	Ser	Gly	Ile	Leu	Lys	Asp	Phe	Trp	Gly	Asp	Tyr	Leu	Gln	Tyr	Asp	Lys
		_				_										

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Input Set : N:\AMC\I831050A.raw

Output Set: N:\CRF4\12182003\I831050A.raw

104	0.65					070					075					000
194	865	m	m	M-1	T	870	T	Ш	7	Dwo	875	T	m	77- 7	71	880
195	Pro	Tyr	Tyr	мет		ASII	ьeu	Tyr	Asp		ASII	гуѕ	ıyı	vai	_	vaı
196	70	70	11. 1	<b>01</b>	885	70	C1	m	N/ - +	890	т	T	C1	D	895	C1
197	Asn	Asn	vaı	_	тте	Arg	СТА	Tyr	Met	Tyr	ьeu	ьуѕ	СТА		Arg	СТУ
198	_			900	<b></b>	_	<b>-1</b>		905	70	0	<b>.</b>		910		<b>01</b>
199	Ser	val		Thr	Thr	Asn	тте	-	Leu	Asn	Ser	Ser		Tyr	Arg	GLY
200		_ `	915			_		920		_	<b>~</b> 1	_	925	_	_	
201	Thr	_	Phe	Ile	He	Lys	_	Tyr	Ala	Ser	GLY		глs	Asp	Asn	TTE
202		930		_		_	935					940		_	_	_
203		Arg	Asn	Asn	Asp	_	Val	Tyr	Ile	Asn		Val	Val	Lys	Asn	
204	945					950					955				_	960
205	Glu	Tyr	Arg	Leu		Thr	Asn	Ala	Ser		Ala	Gly	Val	Glu		Ile
206					965					970					975	_
207	Leu	Ser	Ala	Leu	Glu	Ile	Pro	Asp	Val	Gly	Asn	Leu	Ser	Gln	Val	Val
208				980					985					990		
209	Val	Met	Lys	Ser	Lys	Asn			Gly	Ile	Thr			Cys	Lys	Met
210		•	995					1000					1005			
211	Asn	Leu	Gln	Asp	Asn	Asn	Gly	Asn	Asp	Ile	Gly	Phe	Ile	Gly	Phe	His
212		1010					1015					1020				•
213	Gln	Phe	Asn	Asn	Ile	Ala	Lys	Leu	Val	Ala	Ser	Asn	Trp	Tyr	Asn	Arg
214	102	5				1030				-	1035					L040
215	Gln	Ile	Glu	Arg	Ser	Ser	Arg	Thr	Leu	Gly	Cys	Ser	Trp	Glu	Phe	Ile
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VERIFICATION SUMMARY

PATENT APPLICATION: US/09/831,050A

DATE: 12/19/2003 TIME: 10:37:17

Input Set : N:\AMC\I831050A.raw

Output Set: N:\CRF4\12182003\1831050A.raw

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